

Atty Docket No. 021801-001110US

PTO FAX NO.: (571) 273-8300

ATTENTION: Examiner LEE, CALVIN

Group Art Unit 2818

**OFFICIAL COMMUNICATION**  
**FOR THE PERSONAL ATTENTION OF**  
**EXAMINER LEE, CALVIN**

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**CERTIFICATION OF FACSIMILE TRANSMISSION**

I hereby certify that the following documents in re Application of KYU HYUN CHOI, Application No. 10/820,189, filed April 6, 2004 for METHOD OF MANUFACTURING NON-VOLATILE DRAM are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Documents Attached

- 1) Transmittal Form (1 p);
- 2) Fee Transmittal (1 p in duplicate); and
- 3) Supplemental Information Disclosure Statement (w/o references) (3 pp).

Number of pages being transmitted, including this page: 7

Dated: January 11, 2006

  
Diane Hawley

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NO. 3267 P. 2

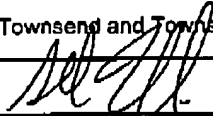
PTO/SB/21 (09-04)

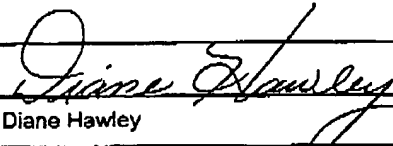
<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/820,189
	Filing Date	April 6, 2004
	First Named Inventor	Choi, Kyu Hyun
	Art Unit	2818
	Examiner Name	LEE, CALVIN
Total Number of Pages in This Submission	Attorney Docket Number	021801-001110US

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ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Postcard PTO Form SB/08A and SB/08B
Remarks: The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	Ardeshtir Tabibi		
Date	January 11, 2006	Reg. No.	48,750

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, Fax No. (571) 273-8300 on January 11, 2006.			
Signature			
Typed or printed name	Diane Hawley	Date	January 11, 2006

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NO. 3267 P. 3

PTO/SB/17 (12-04)

Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <b>FEE TRANSMITTAL</b> <b>For FY 2005</b>		<b>Complete if Known</b> Application Number 10/820,189 Filing Date April 6, 2004 First Named Inventor Choi, Kyu Hyun Examiner Name LEE, CALVIN Art Unit 2818 Attorney Docket No. 021801-001110US	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		RECEIVED CENTRAL FAX CENTER JAN 11 2006	
TOTAL AMOUNT OF PAYMENT (\$180)			

**METHOD OF PAYMENT (check all that apply)**

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Small Entity	
	Fee (\$)	Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims: \_\_\_\_\_ Extra Claims: \_\_\_\_\_ Fee (\$): \_\_\_\_\_ Fee Paid (\$): \_\_\_\_\_  
 HP = highest number of total claims paid for, if greater than 20  
 -20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 Indep. Claims: \_\_\_\_\_ Extra Claims: \_\_\_\_\_ Fee (\$): \_\_\_\_\_ Fee Paid (\$): \_\_\_\_\_  
 -3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 HP = highest number of independent claims paid for, if greater than 3

**3. APPLICATION SIZE FEE**

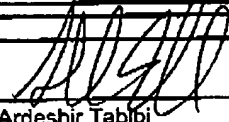
If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____	_____	_____

\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	
Other: Submission of Information Disclosure Stmt	180

SUBMITTED BY		Registration No. 48,750	Telephone 650-326-2400
Signature		(Attorney/Agent)	
Name (Print/Type)	Ardeshir Tabibi	Date	January 11, 2006

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TTC-PA 650-326-2422

NO. 3267 P. 4

PTO/SB/17 (12-04)

Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180)

## Complete if Known

Application Number 10/820,189  
Filing Date April 6, 2004  
First Named Inventor Choi, Kyu Hyun  
Examiner Name LEE, CALVIN  
Art Unit 2818  
Attorney Docket No. 021801-001110US

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## METHOD OF PAYMENT (check all that apply)

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☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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## FEE CALCULATION

## 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

## 2. EXCESS CLAIM FEES

Fee Description	Small Entity	Fee (\$)	Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25	
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100	
Multiple dependent claims	360	180	

**Total Claims** Extra Claims Fee (\$) Fee Paid (\$) **Multiple Dependent Claims**  
-20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
HP = highest number of total claims paid for, if greater than 20  
**Indep. Claims** Extra Claims Fee (\$) Fee Paid (\$)  
-3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
HP = highest number of independent claims paid for, if greater than 3

## 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

**Total Sheets** Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)  
\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

## 4. OTHER FEE(S)


Non-English Specification, \$130 fee (no small entity discount)

Other: Submission of Information Disclosure Stmt

Fees Paid (\$)

180

## SUBMITTED BY

Signature  Registration No. (Attorney/Agent) 48,750 Telephone 650-326-2400  
Name (Print/Type) Ardeshtir Tabibi Date January 11, 2006

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TTC-PA 650-326-2422

NO. 3267 P. 5

PATENT

Attorney Docket No.: 021801-001110US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

KYU HYUN CHOI

Application No.: 10/820,189

Filed: April 6, 2004

For: METHOD OF MANUFACTURING  
NON-VOLATILE DRAM

Examiner: LEE, CALVIN

Art Unit: 2818

SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT  
UNDER 37 CFR §1.97 and §1.98Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are not enclosed.

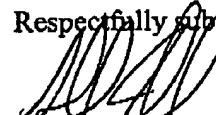
It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Applicants authorize payment of the IDS fee in accordance with the enclosed Fee Transmittal.

Respectfully submitted,

  
Ardeshtir Tabibi  
Reg. No. 48,750TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, Eighth Floor  
San Francisco, California 94111-3834  
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AT:rlj  
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TTC-PA 650-326-2422

NO. 3267 P. 6

PTO/S&amp;B/ORA&amp;B (03-03)

Substitute for form 1449A&B/PTO		<b>Complete if Known</b>	
		Application Number	10/820,189
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Filing Date	April 6, 2004
		First Named Inventor	KYU HYUN CHOI
		Art Unit	2818
		Examiner Name	Lee, Calvin
(use as many sheets as necessary)		Attorney Docket Number	021801-001110US
Sheet	1	of	2

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No.	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US 4,070,655	1/24/1978	Schurmeyer, et al.	
	2	US 4,128,773	12/5/1978	Troutman et al.	
	3	US 4,132,804	1/2/1979	Harari	
	4	US 4,193,128	3/11/1980	Brewer	
	5	US 4,271,487	6/2/1981	Craycraft et al.	
	6	US 4,462,090	7/24/1984	Iizuka	
	7	US 5,051,951	9/24/1991	Maly et al.	
	8	US 5,065,362	11/12/1991	Herd et al.	
	9	US 5,396,461	3/7/1995	Fukumoto	
	10	US 5,619,470	4/8/1997	Fukumoto	
	11	US 5,646,885	7/8/1997	Matsuo et al.	
	12	US 5,703,388	12/30/1997	Wang et al.	
	13	US 5,851,881	12/22/1998	Lin et al.	
	14	US 5,946,566	8/31/1999	Choi	
	15	US 5,966,601	10/12/1999	Ling et al.	
	16	US 5,969,383	10/19/1999	Chang et al.	
	17	US 5,986,932	11/16/1999	Ratnakumar et al.	
	18	US 6,091,634	7/16/2000	Wong	
	19	US 6,118,157	9/12/2000	Bergemont	
	20	US 6,175,268	1/16/2001	Merrill	
	21	US 6,222,765	4/24/2001	Nojima	
	22	US 6,266,272	7/24/2001	Kirihata et al.	
	23	US 6,285,575	8/4/2001	Miwa	
	24	US 6,363,011	3/26/2002	Hirose et al.	
	25	US 6,370,058	4/9/2002	Fukumoto	
	26	US 6,414,873	7/2/2002	Herd	
	27	US 6,426,894	7/30/2002	Hirano	
	28	US 6,451,643	8/17/2002	Komori et al.	
	29	US 6,514,819	2/4/2003	Choi	
	30	US 6,532,169	3/11/2003	Mann et al.	
	31	US 6,556,487	4/29/2003	Ratnakumar et al.	
	32	US 6,573,130	6/3/2003	Patelmo et al.	
	33	US 6,624,015	8/23/2003	Patelmo et al.	
	34	US 6,654,273	11/25/2003	Miwa	
	35	US 6,699,753	3/2/2004	Ma et al.	
	36	US 6,798,008 B2	9/28/2004	Choi	
	37	US 6,836,343	1/4/2005	Hung et al.	
	38	US 2002-0146886	10/10/2002	Chern, Geeng-Chuan	
	39	US 2003-0052361	3/20/2003	Liu et al.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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NO. 3267 P. 7

PTO/SB/08A&amp;B (08-03)

Substitute for form 1449A&B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/820,189
				Filing Date	April 6, 2004
				First Named Inventor	KYU HYUN CHOI
				Art Unit	2818
				Examiner Name	Lee, Calvin
Sheet	2	of	2	Attorney Docket Number	021801-001110US

U.S. PATENT DOCUMENTS*					
Examiner Initials*	Cite No.	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
								<input type="checkbox"/>
								<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 606. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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